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File: USPT

Jan 23, 2001

US-PAT-NO: 6177538

DOCUMENT-IDENTIFIER: US 6177538 B1

TITLE: Method for producing tetrabutyl ammonium phenolate
diphenol adduct

DATE-ISSUED: January 23, 2001

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|-----------------|------------|-------|----------|---------|
| Hesse; Carsten | Tonisvorst | | | DEX |
| Jansen; Ursula | Neuss | | | DEX |
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US-CL-CURRENT: 528/219; 502/164, 528/486, 528/490, 528/86

CLAIMS:

What is claimed is:

1. Process for the production of tetrabutylammonium phenolate diphenol adduct, wherein, in a first step, alkali phenolate is caused to react with stoichiometric quantities of tetrabutylammonium salt in the aqueous phase and, in a second step, two equivalents of phenol are added to the reaction mixture and the adduct is precipitated out.
2. Process according to claim 1, wherein, in a third step, the precipitate that is formed is separated and washed with water until a sodium content of <1,500 ppm in the precipitate is attained.
3. Process according to claim 1, wherein, in a third step, the reaction mixture is extracted with an organic solvent, the organic phase is separated and freed from solvent.
4. A method of using tetrabutylammonium phenolate diphenol adduct as catalyst constituent.